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Poisson geometry of the Grothendieck resolution

We construct a Poisson structure on the Grothendieck resolution X of a complex semisimple group G. The natural map $\mu\colon X \to G$ is Poisson with respect to a Poisson structure π on G such that closures of conjugacy classes are Poisson subvarieties. π_G was first constructed by Alekseev and Malkin. We determine symplectic leaves on the Grothendieck resolution, and show that μ resolves singularities of the Poisson structure π on G.

This talk is based on joint work with Jiang-Hua Lu.